Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Designer & Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Date: May 17, 2017 **Time:** 10:30 AM **Owner:** Dean & Janet Hill

Inspection Address: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the history of the system with the owner, Dean Hill. This very old system (installed in 1973) consists of a pre-cast septic tank and a rock trench drainfield.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact Washington County Environmental Specialist, Mr. Chris LeClair (651-430-4052), to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.

Brian Humpal Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply. Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	For local tracking purposes:
within 15 days	
System Status	
System status on date (mm/dd/yyyy):5/17/2017	
	npliant – Notice of Noncompliance rade Requirements on page 3)
Reason(s) for noncompliance (check all applicable) ☐ Impact on Public Health (Compliance Component #1) – Imminent threat to ☐ Other Compliance Conditions (Compliance Component #3) – Imminent thr ☐ Tank Integrity (Compliance Component #2) – Failing to protect groundwat ☐ Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwat ☐ Soil Separation (Compliance Component #4) – Failing to protect groundwater	eat to public health and safety er btect groundwater
☐ Operating permit/monitoring plan requirements (Compliance Component #	‡5) – Noncompliant
	‡5) – Noncompliant
☐ Operating permit/monitoring plan requirements (Compliance Component #	
Operating permit/monitoring plan requirements (Compliance Component # Property Information Parcel ID# or Sec/Twp/Range	ge: <u>02.029.21.41.0011</u>
Operating permit/monitoring plan requirements (Compliance Component # Property Information Parcel ID# or Sec/Twp/Rang Property address: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042 Reason for	ge: _02.029.21.41.0011 or inspection: _Property Transfer
Property Information Property address: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042 Property owner: Dean & Janet Hill Description Requirements (Compliance Component of the Compliance Complian	ge: <u>02.029.21.41.0011</u>
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www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 1 of 3

Property address: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042 Inspector initials/Date: 5/17/2017

1.	Impact on Public Health — Compliance component #1 of 5								
	Co	Compliance criteria:				Verification method(s):			
		stem discharge sewage to the bund surface.			\boxtimes				
		stem discharge sewage to drain tile surface waters.	☐ Yes	Yes ⊠ No ⊠ Homeowner testimony (S		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system			
		stem cause sewage backup into velling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test			
		Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.				☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
		Comments/Explanation: None of the above found.							
2.	Ta	ank Integrity — Compliance con	nponent	#2 of 5					
	Compliance criteria:				Ve	rification method(s):			
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom			
	Se	epage pits meeting 7080.2550 may be				Examined construction records Examined Tank Integrity Form (Attach)			
		mpliant if allowed in local ordinance.	□ Vaa			Observed liquid level below operating depth			
		wage tank(s) leak below their signed operating depth.	☐ Yes	⊠ N0		Examined empty (pumped) tanks(s)			
	lf y	ves, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil" Unable to verify (See Comments/Explanation)			
	Any "yes" answer above indicates the system is Failing to Protect Groundwater.					☐ Other methods not listed (See Comments/Explanation)			
	Comments/Explanation:								
3.	3. Other Compliance Conditions — Compliance component #3 of 5								
	a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unkno								
b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ *System is an imminent threat to public health and safety									
		Explain:							
	C.	System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☐ No *System is failing to protect groundwater							
		Explain:							

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Property address: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042

Inspector initials/Date: 5/17/2017

Date of installation: _1973	Unkr	nown	Verification method(s):		
Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes ☒ No		Soil observation does not expire. Previous soil		
Compliance criteria:			observations by two independent parties are sufficie unless site conditions have been altered or local		
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	☐ Yes	requirements differ. Conducted soil observat Two previous verification Not applicable (Holding to		vation(s) (Attach boring logs) ions (Attach boring logs)	
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			☐ Unable to verify (See Comments/Explanation) ☐ Other (See Comments/Explanation)		
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	☐ Yes	□ No	Comments/Explanation:		
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*					
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	☐ Yes	☐ No	Indicate depths of eleva	tions	
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			A. Bottom of distribution media	See Attached Boring Log(s)	
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			B. Periodically saturated soil/beC. System separation	drock	
Saturated 3011 of Bedrock.			D. Required compliance separa	ition*	
Any "no" answer above indicates the system is Failing to Protect Groundwater. *May be reduced up to 15 percent if allowed by Loc Ordinance.					
Operating Permit and Nitrogen B	MP* – C	Compliance	component #5 of 5	ot applicable	
Is the system operated under an Operating Per	mit?	☐ Yes [☑ No If "yes", A below is req		
Is the system required to employ a Nitrogen BMP?					
Compliance criteria					
a. Operating Permit number:					
Have the Operating Permit requirements I	peen met	?	☐ Yes ☐ No		
b. Is the required nitrogen BMP in place and properly functioning			☐ Yes ☐ No		

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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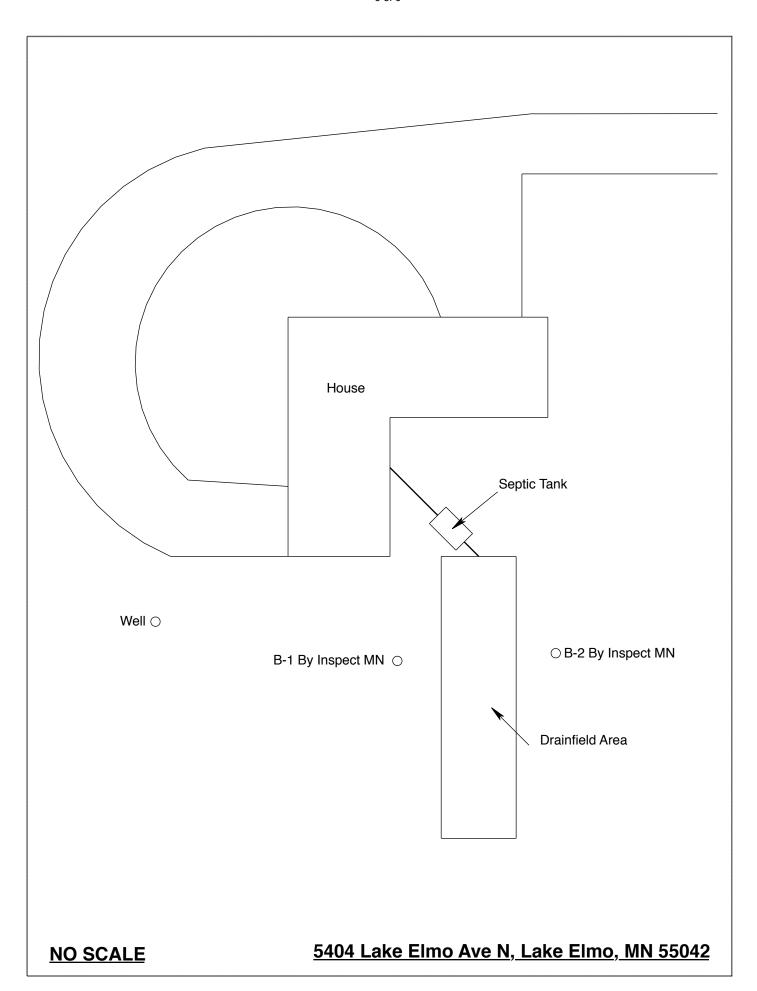
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: May 17, 2017	Time: 2:00 PM					
Property Address: 5404 Lake Elmo Ave N, Lake Elmo,	MN Zip: 55042					
Property Owner: Dean & Janet Hill	Phone: 612-280-8572					
Tank(s) Tank(s)Material Soil Treatmen Septic 1 Fiberglass Rock trencl Aerobic Plastic Gravelless Lift Metal Chamber tr Holding Concrete Seepage be Other: Block Mound Other At-grade	h Alternative system trench Experimental system ench Cesspool system					
Are the tank maintenance covers accessible? \square Yes \boxtimes No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.						
Year house built: 1973 Year septic installed: 1973	(E /					
	nber of residents in home? 2					
Number of bedrooms? 4 Are all floors drained by gravity? Lower Pumped						
Garbage disposal? Y Whirlpool bath? Y						
More than one system (laundry, etc.)? N						
Does this property have any footing drain tiles connected to the septic system? N Are any buildings on this property such as garages or out-buildings connected to this system? Drain in garage connected to septic.						
Are there any additional systems on this property serving other buildings? N						
Location of septic system on lot? Northeast Side						
Location of water well on lot? Southeast Side	Is the well a deep well? Y					
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? N If yes, explain:						
When was the system last pumped? 2014 Nam	ne of pumper: Pinky's Sewer Service					
How often pumped in previous years? Every 2						
Have you received notices from any government agency concerning this system? N						
Is your property located in a shoreland management area? N						
Do you have any additional information that should be given to the new owner? N						

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant: Dean Hill's Signature On File Date: 5/17/2017



Log Of Soil Borings

Location of Project: 5404 Lake Elmo Ave N, Lake Elmo, MN 55042						
		Inspect Minnesota	·	Date	5/17/17	
Auger Used: Hand/Bucket			Classification System:		USDA	
Boring Number: 1			Boring Number: 2		2	
Surface Elevation of Boring Same grou		and surface as last ofield trench	Boring drain		und surface as last nfield trench	
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Encountered		
Depth In Inches O-11 11-19 19-36 36-54 54-62 62-75 10YR 4/4 Sandy Loam 7.5YR 5/8 4/4 Sandy Loam 7.5YR 5/4, 10YR 5/1, & 10YR 7/2 Redox		0-17 17-26 26-38 38-65 65-75	10YR 4/2 Loam 10YR 4/3 Sandy Loam 10YR 4/3 Sandy Loam With Gravel ≈20% Rock Fragments 7.5YR 4/4 Medium Sand With Trace Of Gravel 7.5YR 4/4 Loamy Sand With 5YR 4/4 Redox			
62" Depth To End Of Boring Or Redox			65"	Depth To End Of Boring Or Redox		
Same Elevation Of Boring Relative To System			Same	Elevation Of Boring Relative To System		
-51" Depth To Bottom Of Distribution Media =9" Of Separation		-51" Depth To Bottom Of Distribution Media =14" Of Separation				
Е	and Of Boring At:	75"		End Of Boring At	75"	
Redox Present At: 62"				Redox Present At		
Standing Water Present At: None			Standing	Water Present At	None	

Bottom Of Distribution Medium At: 51 Inches

DISCLAIMER

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
- 8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #

Name

Certification Expires:

C5342

Brian L Humpal

10/15/2017

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852

Christopher R Uebe

3/4/2018

Designer, Inspector



St. Paul. Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section